

AGENDA

DAY 1 – TUESDAY – Sept 12, 2006 – Classroom all day

- 8:00-8:15 Instructor Introduction and Overview of Workshop Schedule – Derrick & Lafer
8:15-9:30 The Philosophy of Restoration (Goal and Function Based Design, & Maintenance and Monitoring) – Derrick

SESSION 1: STREAMBED STABILIZATION

- 9:30-11:00 The Channel Evolution Model (CEM) and Grade Control – Derrick

SESSION 2: STREAMBANK PROTECTION & STABILIZATION METHODS

- 11:00-12:00 Resistive and Continuous Bank Stabilization Methods-Derrick
12:00-1:00 LUNCH
1:00-2:00 Resistive and Continuous Bank Stabilization Methods (continued) - Derrick
2:00-3:30 Bioengineering Philosophy and Methods for Streambank Protection Using Native Plants (with break)-Derrick
3:30-5:00 TWO CASE STUDIES - Putting it All Together – The McKinstry Creek Stream Realignment project and Catt Creek @ Savage Road Highway Protection Project and -Derrick

DAY 2 – WEDNESDAY - September 13, 2006 – Classroom all day

SESSION 2: STREAMBANK PROTECTION & STABILIZATION METHODS (continued)

- 8:00-8:30 The Abrupt Planform Modifiers! -Derrick
8:30-8:45 How to Choose a Bank Protection Method-Derrick
8:45-9:15 Project Construction-Derrick
9:15-9:30 BREAK
9:30-11:00 How to Conduct a Field Investigation of a Streambank Erosion Problem-Derrick
 a. Fundamentals of Fluvial Geomorphology
 b. How to Read a Stream
11:00-11:15 Review (Dave's Design Considerations, 47 Ways to Stay out of Trouble)-Derrick

SESSION 3: IMPORTANCE, FUNCTIONS, & MANAGEMENT OF THE RIPARIAN BUFFER ZONE

- 11:15-12:00 Importance of Stream and Riparian Corridors-Dr. Rich Fischer
 - Why is quality important?
 - Ecological and Physical Functions
 - Importance to birds, mammals, and herpetofauna
12:00-1:00 LUNCH
1:00-1:45 Importance of Stream and Riparian Corridors (continued) - Dr. Rich Fischer
1:45-3:45 Riparian Buffer Strips and Corridors
 - Importance
 - Types of Buffer Strips and how they function
 - Selecting the type of buffer strip for objective
 - Regional/National Programs to fund riparian projects
 - Management techniques for various functions in riparian areas
3:45-4:45 Preview of Field Trip Sites – Marla Lafer/Liz Lewis
4:45-5:00 Safety, Field Clothes and Equipment for Tomorrow – hip boots, cameras, etc. – Derrick

DAY 3 – THURSDAY – Sept 14, 2006 –

SESSION 4: FIELD INVESTIGATION-“Every stream is a classroom” – Lewis, Lafer, Fischer, Derrick and others

- 8:00-4:45 Field Trips: Analysis of completed projects and eroding banks
- a.) Development of project performance goals (function based)
 - b.) Analysis of existing, historical, and future flow and erosion processes and conditions
 - c.) Flow analysis of project (satisfies project goals?)
 - d.) Analyze overall effects of chosen design on the stream system and riparian corridor
- 4:45-5:00 Miscellaneous Questions and Wrap-up Workshop

Fieldtrip Information

If all goes as planned, we will begin with presentations about the sites on Thursday morning – prior to the site visits. We are planning a morning and afternoon session at each site. We have transportation for about 90 people. If we have more than 90 participants, we may need a few people to volunteer to drive their private vehicles.

The sites include:

Novato Creek (Urban setting)

Below Grant Avenue –

County Flood Control stabilization project along ~ 0.8 miles of Novato Creek. Project is currently under construction. Project elements include:

- Removal of some existing structures
- Biotechnical stabilization techniques including slope vegetation, willow wall revetments, and vegetated rock riprap
- Regrading and channelization
- Placement of deflection structures including j-vanes and cross-vanes

Above Grant Avenue-

Several untreated sites showing severe erosion, over-steepened banks, etc.

West Marin (Rural setting)

- Marin Municipal Water District – Vegetated rock riprap
- Spirit Rock – details to come
- San Geronimo Golf Course – Willow wall
- Woodacre – Fish passage, arched culverts, floodplain restoration

Field Gear – long pants (protection from poison oak and nettles), hiking boots, sunscreen.
Waders should not be necessary (hey this is California in the dry season!)